

## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
<b>Process 3: TREATING/STRIPPING</b>					
HEAT EXCHANGER, SHELL AND TUBE TYPE, E-502, OVERHEAD CONDENSER, LENGTH: 5 FT ; DIAMETER: 4 IN A/N:	D379	D7 D8			
PUMP, VACUUM, VP-603, 2 HP A/N:	D8	D9 D379			
ACCUMULATOR, D-501, OVERHEAD SEPARATOR, HEIGHT: 1 FT ; DIAMETER: 8 IN A/N:	D9	D8 D128			
DRUM, D-502, REFLUX SEPARATOR, HEIGHT: 3 FT ; DIAMETER: 8 IN A/N:	D380	D128			
HEAT EXCHANGER, SHELL AND TUBE TYPE, E-503, SEAL WATER COOLER, LENGTH: 2 FT 6 IN; DIAMETER: 4 IN A/N:	D381				
PUMP, P-604, SPLITTER OVERHEAD, 0.75 HP A/N:	D13				
PUMP, P-605, WATER, 0.75 HP A/N:	D11				
ACCUMULATOR, D-503, BOTTOMS, HEIGHT: 4 FT 8 IN; DIAMETER: 10 IN A/N:	D6				
PUMP, SEALLESS, P-602, BOTTOMS, 2 HP A/N:	D12				

\* (1) (1A) (1B) Denotes RECLAIM emission factor  
 (2) (2A) (2B) Denotes RECLAIM emission rate  
 (3) Denotes RECLAIM concentration limit  
 (4) Denotes BACT emission limit  
 (5) (5A) (5B) Denotes command and control emission limit  
 (6) Denotes air toxic control rule limit  
 (7) Denotes NSR applicability limit  
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
 (10) See section J for NESHAP/MACT requirements

\*\* Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
<b>Process 5: OIL/WATER SEPARATION</b>					
<b>System 2: SLUDGE DEWATERING</b>					S1.2
UNLOADING STATION, TRUCK WASHOUT, LOCATED INSIDE THE TRUCK WASHOUT ENCLOSURE, WITH A 10 HP CONVEYOR, WIDTH: 8 FT ; HEIGHT: 7 FT ; LENGTH: 28 FT A/N: 528472 Permit to Construct Issued: 04/11/12	D52	D322			H23.2
TANK, HOLDING, V-701, WASTE WATER, 500 BBL A/N: 528472 Permit to Construct Issued: 04/11/12	D60	D322			
CENTRIFUGE, DECANTER-TYPE, B&P PROCESS EQUIPMENT, MODEL W1D602, 100 HP ELECTRIC MOTOR A/N: 528472 Permit to Construct Issued: 04/11/12	D64	D322			H23.2, K171.1
HOPPER, PORTABLE, UP TO 4 CUBIC YARD CAPACITY EACH, COVERED, 10 TOTAL A/N: 528472 Permit to Construct Issued: 04/11/12	D418				H23.2
BIN, ROLLOFF, UP TO 40 CUBIC YARD CAPACITY EACH, COVERED, 10 TOTAL A/N: 528472 Permit to Construct Issued: 04/11/12	D524				
<b>System 3: STORAGE SILO</b>					

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 (2) (2A) (2B) Denotes RECLAIM emission rate  
 (3) Denotes RECLAIM concentration limit  
 (4) Denotes BACT emission limit  
 (5) (5A) (5B) Denotes command and control emission limit  
 (6) Denotes air toxic control rule limit  
 (7) Denotes NSR applicability limit  
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
 (10) See section J for NESHAP/MACT requirements

\*\* Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
<b>Process 5: OIL/WATER SEPARATION</b>					
STORAGE SILO, 2800 CU FT CAPACITY, FLY ASH, CEMENT KILN DUST, WITH A SEALED 10" DISCHARGE AUGER AND A 10 HP ELECTRIC MOTOR, HEIGHT: 30 FT ; DIAMETER: 10 FT 10 IN WITH A/N: 530589 Permit to Construct Issued: 04/11/12	D557			PM: (9) [RULE 404, 2-7-1986; RULE 405, 2-7-1986]	C1.13, D323.1, E184.1, H23.12, K67.18, K171.1
FILTER, VENT, 225 SQ FT TOTAL FILTER AREA, WITH 18 FILTER BAGS, EACH, LENGTH: 6 FT ; DIAMETER: 8 IN	C558				
<b>Process 9: AIR POLLUTION CONTROL</b>					
<b>System 7: AFTERBURNER</b>					
SCRUBBER, PACKED BED, CAUSTIC, ENVITECH, MODEL RT5-12, SINGLE STAGE, WITH MIST ELIMINATOR, MUNTERS, T-125, AND A QUENCH TOWER. WITH A COMMON STACK WITH DEVICE C301, WIDTH: 8 FT 6 IN; HEIGHT: 13 FT ; LENGTH: 16 FT 6 IN A/N:	C300	C142			C8.6, C8.10, D82.1, E448.1, E448.2, K171.1

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 (2) (2A) (2B) Denotes RECLAIM emission rate  
 (3) Denotes RECLAIM concentration limit  
 (4) Denotes BACT emission limit  
 (5) (5A) (5B) Denotes command and control emission limit  
 (6) Denotes air toxic control rule limit  
 (7) Denotes NSR applicability limit  
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
 (10) See section J for NESHAP/MACT requirements

\*\* Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
<b>Process 9: AIR POLLUTION CONTROL</b>					
AFTERBURNER, 23.2 MMBTU/HR (PROCESS GAS AND NAT. GAS), 8.2 MMBTU/HR (NAT. GAS), A/N: 527510 Permit to Construct Issued: 04/11/12	C142	C139 D140 D195 D196 D197 D198 D226 D241 D284 D287 D288 D289 C300 D324 D556	NOX: LARGE SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 130 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF NATURAL GAS (5) [RULE 409, 8-7-1981]; SO2: 500 PPMV AT 15 MINS. (5) [RULE 407, 4-2-1982]	C1.14, C4.1, C8.5, D12.5, D12.7, D28.1, D29.4, D323.1, E71.2, E71.3, E448.1, E448.3, E448.4, H116.4, H116.5, H116.6, I298.1, K171.1
<b>System 13: AFTERBURNER</b>					
SCRUBBER, PACKED BED, CAUSTIC, ENVITECH, MODEL VT7-10-2, TWO STAGE, WITH MIST ELIMINATOR, MUNTERS, T-271, AND A QUENCH TOWER, WITH A COMMON STACK WITH DEVICE C300., HEIGHT: 50 FT ; DIAMETER: 7 FT A/N: 508214 Permit to Construct Issued: 05/13/11	C301	C281			C8.7, C8.11, D82.1, E448.1, E448.2, K171.1

\* (1) (1A) (1B) Denotes RECLAIM emission factor  
 (3) Denotes RECLAIM concentration limit  
 (5) (5A) (5B) Denotes command and control emission limit  
 (7) Denotes NSR applicability limit  
 (9) See App B for Emission Limits  
 (2) (2A) (2B) Denotes RECLAIM emission rate  
 (4) Denotes BACT emission limit  
 (6) Denotes air toxic control rule limit  
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
 (10) See section J for NESHAP/MACT requirements

\*\* Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
<b>Process 9: AIR POLLUTION CONTROL</b>					
AFTERBURNER, ZEECO, WITH URS CORP. BURNER, MODEL RMBF-9-NG, 24 MMBTU/HR (PROCESS GAS AND NAT., GAS), 9 MMBTU/HR (NAT. GAS) WITH A HEAT RECOVERY UNIT. A/N: 527511 Permit to Construct Issued: 04/11/12	C281	C139 D140 D141 D195 D196 D197 D198 D284 D287 D288 D289 C301 D324 D556	NOX: LARGE SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 50 PPMV NATURAL GAS (4) [RULE 2005, 5-6-2005]; NOX: 130 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF NATURAL GAS (5) [RULE 409, 8-7-1981]; SO2: 500 PPMV AT 15 MINS. (5) [RULE 407, 4-2-1982]	C4.3, C8.5, D12.5, D12.7, D28.1, D28.2, D28.3, D29.3, D323.1, E71.2, E448.1, H116.4, H116.5, H116.6, I298.1, K171.1
<b>Process 11: MISCELLANEOUS</b>					
<b>System 4: SOIL VAPOR EXTRACTION</b>					S15.2
VAPOR EXTRACTION WELL, UP TO 54 TOTAL A/N: 527509 Permit to Construct Issued: 04/11/12	D554	D555			E71.5, E193.3, K171.1
BLOWER, VACUUM, BL-XXX, 200 CU.FT./MIN A/N: 527509 Permit to Construct Issued: 04/11/12	D555	D554 D556			C1.12, D12.10, D90.12, D90.13, E71.5, E193.3, K67.23, K171.1
KNOCK OUT POT, KO-XXX, HEIGHT: 6 FT ; DIAMETER: 2 FT A/N: 527509 Permit to Construct Issued: 04/11/12	D556	C142 C281 D555			E71.5, E193.3, K171.1

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 (3) Denotes RECLAIM concentration limit  
 (4) Denotes BACT emission limit  
 (5) (5A) (5B) Denotes command and control emission limit  
 (6) Denotes air toxic control rule limit  
 (7) Denotes NSR applicability limit  
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
 (10) See section J for NESHAP/MACT requirements

\*\* Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

**FACILITY PERMIT TO OPERATE  
DEMENNO/KERDOON**

**SECTION H: DEVICE ID INDEX**

**The following sub-section provides an index  
to the devices that make up the facility  
description sorted by device ID.**

## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### SECTION H: DEVICE ID INDEX

<b>Device Index For Section H</b>			
Device ID	Section H Page No.	Process	System
D52	1	5	2
D60	1	5	2
D64	1	5	2
C142	3	9	7
C281	4	9	13
C300	2	9	7
C301	3	9	13
D418	1	5	2
D524	1	5	2
D554	4	11	4
D555	4	11	4
D556	4	11	4
D557	2	5	3
C558	2	5	3

## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

**The operator shall comply with the terms and conditions set forth below:**

#### FACILITY CONDITIONS

F2.1 The operator shall limit emissions from this facility as follows:

CONTAMINANT	EMISSIONS LIMIT
VOC	Less than 2550 LBS IN ANY ONE MONTH

The facility afterburners stacks and facility fugitive components shall comply with the above Volatile Organic Compounds (VOC) emission limit.

To ensure compliance with the monthly Volatile Organic Compounds (VOC) emission limit of this condition, the operator shall comply with the following recordkeeping requirements:

(1) Within 14 calendar days after the end of each month, the operator shall total and record VOC emissions for the month from afterburners and fugitive components.

(2) The operator shall retain the VOC emissions records for at least 5 years.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

F2.2 The operator shall limit emissions from this facility as follows:

CONTAMINANT	EMISSIONS LIMIT
SOX	Less than 4 TONS IN ANY ONE YEAR

## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

#### The operator shall comply with the terms and conditions set forth below:

The facility afterburners systems shall comply with the above Sulfur Oxides (SOX) emission limit.

To ensure compliance with the Sulfur Oxides (SOX) emission limit of this condition, the operator shall comply with the following monitoring and recordkeeping requirements:

1. Monitor SOX concentrations at the exhaust stack of the afterburner C281/scrubber C301 or the afterburner C142/scrubber C300 using AQMD certified Continuous Emissions Monitoring System (CEMS), OR
2. If afterburner C281/scrubber C301 is out of operation and scrubber C300 is under construction, monitor the sulfur content of the vapor recovery stream and calculate the SOX emissions from the afterburner C142 on a daily basis.
3. Within 14 calendar days after the end of each month, the operator shall total and record SOX emissions for the month and for the calendar year from the two afterburners C281 and C142.
4. The operator shall retain sulfur content and the SOX emissions records for at least 5 years.

#### [RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

F9.1 Except for open abrasive blasting operations, the operator shall not discharge into the atmosphere from any single source of emissions whatsoever any air contaminant for a period or periods aggregating more than three minutes in any one hour which is:

- (a) As dark or darker in shade as that designated No.1 on the Ringelmann Chart, as published by the United States Bureau of Mines; or
- (b) Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in subparagraph (a) of this condition.

#### [RULE 401, 3-2-1984; RULE 401, 11-9-2001]

## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

**The operator shall comply with the terms and conditions set forth below:**

F14.1 The operator shall not use liquid fuel containing sulfur compounds in excess of 500 ppm by weight.

[RULE 431.2, 5-4-1990; RULE 431.2, 9-15-2000]

F14.2 The operator shall not purchase any diesel fuel , for stationary source application as defined in Rule 431.2, containing sulfur compounds in excess of 15 ppm by weight as supplied by the supplier.

[RULE 431.2, 5-4-1990; RULE 431.2, 9-15-2000]

F16.1 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Records of the monthly (and quarterly where applicable) inspection, and subsequent repair and reinspection, of VOC fugitive components subject to District Rule 1173

[RULE 1173, 5-13-1994; RULE 1173, 2-6-2009]

F48.2 The operator shall not operate at this facility any combustion devices burning gaseous fuels (except natural gas) unless total sulfur compounds emissions from the facility are less than 5 pounds per day (calculated as H<sub>2</sub>S).

This condition shall no longer apply once this facility has demonstrated to the satisfaction of the District that the operation of all combustion devices at this facility will comply with all applicable requirements of Rule 431.1.

[RULE 431.1, 6-12-1998]

F48.3 The operator shall not operate at this facility any device used to produce gasoline, kerosene, distillate fuel oils, residual fuel oils, lubricants, or other products through distillation of petroleum or through redistillation, cracking or reforming of unfinished petroleum derivatives.

## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

#### **The operator shall comply with the terms and conditions set forth below:**

For the purpose of this condition, petroleum shall be defined as the crude oil removed from the earth and the oils derived from tar sands, shale, and coal.

The operator shall submit to the Executive Officer, as a part of an annual compliance certification, a statement that certifies compliance with this condition.

#### **[RULE 204, 10-8-1993]**

- F48.4 The operator shall not operate at this facility any device used to treat, store, or dispose of benzene-containing hazardous waste from any chemical manufacturing plant, coke by-product recovery plant, or petroleum refinery.

The operator shall submit to the Executive Officer, as a part of an annual compliance certification, a statement that certifies compliance with this condition.

A copy of each manifest, or the manifest data stored in a manifest database, for benzene-containing hazardous waste received at this facility shall be kept and maintained for at least five years, and shall be made available to the Executive Officer or his authorized representative upon request

#### **[RULE 204, 10-8-1993]**

- F52.1 This facility is subject to the applicable requirements of the following rules or regulation(s):

40 CFR 60 Subpart A

40 CFR 61 Subpart A

40 CFR 63 Subpart A

**[40CFR 60 Subpart A, 5-16-2007; 40CFR 61 Subpart A, 5-16-2007; 40CFR 63 Subpart A, 5-16-2007]**

#### **SYSTEM CONDITIONS**

## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

#### The operator shall comply with the terms and conditions set forth below:

- S1.1 The operator shall limit the loading rate to no more than 6,132,000 gallon(s) in any one calendar month.

This limit shall be based on the total combined throughput of Asphalt Flux Loading Rack No. 4 (Process 7, System 7) and Asphalt Flux Loading Rack No. 7 (Process 7, System 8).

The operator shall monitor the throughput of materials loaded, in gallons, by using certified truck scale records to determine the pounds of material loaded, and a measurement of the specific gravity or API gravity of the material loaded.

**[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Systems subject to this condition : Process 7, System 7 , 8]

- S1.2 The operator shall limit the material processed to no more than 4,320,000 gallon(s) in any one calendar month.

For the purpose of this condition, material processed shall be defined as the total amount of sludge or any other hydrocarbon containing material processed in this system before dewatering.

To comply with this condition, the operator shall install and maintain a non-resettable totalizing flow meter to accurately indicate the total volume of volume of sludge processed in this system before dewatering.

The operator shall determine and record the volume of sludge processed once every calendar month.

The operator shall calibrate the flow meter per the manufacturer's specifications.

**[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Systems subject to this condition : Process 5, System 2]

## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

**The operator shall comply with the terms and conditions set forth below:**

- S1.3 The operator shall limit the unloading rate to no more than 1,520,833 gallon(s) in any one calendar month.

The operator shall monitor the throughput of materials unloaded, in gallons, by using certified truck scale records to determine the pounds of material unloaded, and a measurement of the specific gravity or API gravity of the material unloaded.

**[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Systems subject to this condition : Process 7, System 3]

- S1.4 The operator shall limit the unloading rate to no more than 6,387,500 gallon(s) in any one calendar month.

The operator shall monitor the throughput of materials unloaded, in gallons, by using certified truck scale records to determine the pounds of material unloaded, and a measurement of the specific gravity or API gravity of the material unloaded.

**[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Systems subject to this condition : Process 7, System 1]

- S1.5 The operator shall limit the unloading rate to no more than 3,832,500 gallon(s) in any one calendar month.

The operator shall monitor the throughput of materials unloaded, in gallons, by using certified truck scale records to determine the pounds of material unloaded, and a measurement of the specific gravity or API gravity of the material unloaded.

**[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Systems subject to this condition : Process 7, System 2]

- S1.6 The operator shall limit the loading rate to no more than 243,334 gallon(s) in any one calendar month.

## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

#### **The operator shall comply with the terms and conditions set forth below:**

For the purpose of this condition, the loading rate shall be defined as the loading rate of Naphtha.

The operator shall monitor the throughput of materials loaded, in gallons, by using certified truck scale records to determine the pounds of material loaded, and a measurement of the specific gravity or API gravity of the material loaded.

**[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Systems subject to this condition : Process 7, System 5]

- S1.7 The operator shall limit the loading rate to no more than 3,193,750 gallon(s) in any one calendar month.

The operator shall monitor the throughput of materials loaded, in gallons, by using certified truck scale records to determine the pounds of material loaded, and a measurement of the specific gravity or API gravity of the material loaded.

**[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Systems subject to this condition : Process 7, System 4]

- S1.8 The operator shall limit the loading rate to no more than 6,083,333 gallon(s) in any one calendar month.

The operator shall monitor the throughput of materials loaded, in gallons, by using certified truck scale records to determine the pounds of material loaded, and a measurement of the specific gravity or API gravity of the material loaded.

**[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Systems subject to this condition : Process 7, System 6]

- S1.9 The operator shall limit the loading rate to no more than 100,000 gallon(s) in any one calendar month.

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### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

**The operator shall comply with the terms and conditions set forth below:**

For the purpose of this condition, the loading rate shall be defined as the loading rate of RCRA Fuel.

The operator shall monitor the throughput of materials loaded, in gallons, by using certified truck scale records to determine the pounds of material loaded, and a measurement of the specific gravity or API gravity of the material loaded.

**[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Systems subject to this condition : Process 7, System 9]

- S1.10 The operator shall limit the unloading rate to no more than 100,000 gallon(s) in any one calendar month.

The operator shall monitor the throughput of materials unloaded, in gallons, by using certified truck scale records to determine the pounds of material unloaded, and a measurement of the specific gravity or API gravity of the material unloaded.

**[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Systems subject to this condition : Process 7, System 9]

- S1.11 The operator shall limit the material processed to no more than 9,060 ton(s) in any one calendar month.

The operator shall maintain records in a manner approved by the District to demonstrate compliance with this condition.

**[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Systems subject to this condition : Process 11, System 1]

- S1.12 The operator shall limit the throughput to no more than 8,500,000 gallon(s) in any one calendar month.

## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

**The operator shall comply with the terms and conditions set forth below:**

For the purpose of this condition, throughput shall be defined as the volume of wastewater, in gallons, discharged to the LACSD sewer connection (D468).

To comply with this condition, the operator shall install and maintain a non-resettable totalizing flow meter to accurately indicate the total volume of wastewater discharged to the LACSD sewer connection (D468).

The operator shall determine and record the volume of wastewater discharged to the LACSD sewer connection once every calendar month.

The operator shall calibrate the flow meter per the manufacturer's specifications.

**[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Systems subject to this condition : Process 5, System 1]

S1.13 The operator shall limit the loading rate to no more than 25,000 gallon(s) in any one calendar month.

The operator shall monitor the throughput of materials loaded, in gallons, by using certified truck scale records to determine the pounds of material loaded, and a measurement of the specific gravity or API gravity of the material loaded.

**[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Systems subject to this condition : Process 7, System 10]

S13.1 All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
PM	40CFR60, SUBPART	UU
PM	40CFR63, SUBPART	AAAAAAA

## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

**The operator shall comply with the terms and conditions set forth below:**

**[40CFR 60 Subpart UU, 8-5-1983; 40CFR 63 Subpart AAAAAAA, 12-2-2009]**

[Systems subject to this condition : Process 11, System 1]

S13.3 All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	462

**[RULE 462, 5-14-1999]**

[Systems subject to this condition : Process 7, System 5 , 9; Process 9, System 9]

S15.1 The vent gases from all affected devices of this process/system shall be vented as follows:

All vent gases from any process vent of this system shall be vented to the caustic scrubber(s) (Process 9, System 3).

This process/system shall not be operated unless the above scrubber(s) are in full use and have a valid permit to receive vent gases from this system.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]**

[Systems subject to this condition : Process 1, System 1 , 2 , 3; Process 2, System 1 ; Process 3, System 1; Process 4, System 1]

S15.2 The vent gases from all affected devices of this process/system shall be vented as follows:

All vent gases from this system shall be vented to the Afterburners (Process 9, Systems 7 & 13).

This process/system shall not be operated unless at least one of the afterburners is in full use and has a valid permit to receive vent gases from this system.

## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

**The operator shall comply with the terms and conditions set forth below:**

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]**

[Systems subject to this condition : Process 9, System 1, 2, 3, 4, 5, 8, 9, 11, 12; Process 11, System 4]

S15.3 The vent gases from all affected devices of this process/system shall be vented as follows:

All vent gases under normal operating conditions shall be vented to the Vapor Recovery System - North Tank Farms (Process 9, System 1).

This process/system shall not be operated unless the above vapor recovery system is in full use and has a valid permit to receive vent gases from this system.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]**

[Systems subject to this condition : Process 6, System 5, 6, 7]

S15.4 The vent gases from all affected devices of this process/system shall be vented as follows:

All vent gases under normal operating conditions shall be vented to the Vapor Recovery System - South Tank Farms (Process 9, System 2).

This process/system shall not be operated unless the above vapor recovery system is in full use and has a valid permit to receive vent gases from this system.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]**

[Systems subject to this condition : Process 6, System 1, 2]

S15.5 The vent gases from all affected devices of this process/system shall be vented as follows:

## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

**The operator shall comply with the terms and conditions set forth below:**

All vent gases under normal operating conditions shall be vented to the Vapor Recovery System - RCRA Fuel & Naphtha Tanks (Process 9, System 5).

This process/system shall not be operated unless the above vapor recovery system is in full use and has a valid permit to receive vent gases from this system.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]**

[Systems subject to this condition : Process 6, System 4]

S15.6 The vent gases from all affected devices of this process/system shall be vented as follows:

All vent gases under normal operating conditions shall be vented to the Vapor Recovery System - Wastewater Treatment (Process 9, System 8).

This process/system shall not be operated unless the above vapor recovery system is in full use and has a valid permit to receive vent gases from this system.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]**

[Systems subject to this condition : Process 5, System 1]

S15.7 The vent gases from all affected devices of this process/system shall be vented as follows:

All vent gases under normal operating conditions shall be vented to the Caustic Scrubber Serving Asphalt Blowing Stills (Process 9, System 4).

This process/system shall not be operated unless the above caustic scrubber is in full use and has a valid permit to receive vent gases from this system.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]**

[Systems subject to this condition : Process 11, System 1]

## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

**The operator shall comply with the terms and conditions set forth below:**

S15.8 The vent gases from all affected devices of this process/system shall be vented as follows:

All vent gases under normal operating conditions shall be vented to the Vapor Recovery System - Asphalt Flux Loading Rack No. 7 (Process 9, System 11).

This process/system shall not be operated unless the above vapor recovery system is in full use and has a valid permit to receive vent gases from this system.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]**

[Systems subject to this condition : Process 7, System 8 , 10]

S15.9 The vent gases from all affected devices of this process/system shall be vented as follows:

All vent gases under normal operating conditions shall be vented to the Vapor Recovery System - Front Loading Racks (Process 9, System 9).

This process/system shall not be operated unless the above vapor recovery system is in full use and has a valid permit to receive vent gases from this system.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]**

[Systems subject to this condition : Process 7, System 4 , 5 , 6 , 7 , 9]

S18.1 All affected devices listed under this process/system shall be used only to receive, recover and/or dispose of vent gases routed from the system(s) or process(es) listed below, in addition to specific devices identified in the "connected to" column:

Asphalt Blowing (Process: 11, System: 1)

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]**

[Systems subject to this condition : Process 9, System 4]

## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

**The operator shall comply with the terms and conditions set forth below:**

S18.2 All affected devices listed under this process/system shall be used only to receive, recover and/or dispose of vent gases routed from the system(s) or process(es) listed below, in addition to specific devices identified in the "connected to" column:

Used Oil Dehydration (Process: 1, System: 1)

Vacuum Distillation Unit No. 1 (Process: 1, System: 2)

Vacuum Distillation Unit No. 2 (Process: 1, System: 3)

PRM Stripper (Process: 2, System: 1)

Naphtha Splitter Unit (Process: 3, System: 1)

Ethylene Glycol Distillation (Process: 4, System: 1)

Waste Water Treatment (Process: 5, System: 1)

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]**

[Systems subject to this condition : Process 9, System 3]

S18.3 All affected devices listed under this process/system shall be used only to receive, recover and/or dispose of vent gases routed from the system(s) or process(es) listed below, in addition to specific devices identified in the "connected to" column:

Asphalt Flux Loading - Rack No. 7 (Process: 7, System: 8)

Used Glycol Loading (Process: 7, System: 10)

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]**

[Systems subject to this condition : Process 9, System 11]

## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

**The operator shall comply with the terms and conditions set forth below:**

S18.4 All affected devices listed under this process/system shall be used only to receive, recover and/or dispose of vent gases routed from the system(s) or process(es) listed below, in addition to specific devices identified in the "connected to" column:

Fixed Roof Storage Tanks : Southwest Tank Farm (Process: 6, System: 1)

Fixed Roof Storage Tanks - Wastewater Tanks (Process: 6, System: 2)

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]**

[Systems subject to this condition : Process 9, System 2]

S18.5 All affected devices listed under this process/system shall be used only to receive, recover and/or dispose of vent gases routed from the system(s) or process(es) listed below, in addition to specific devices identified in the "connected to" column:

Fixed Roof Storage Tanks : RCRA Fuel & Naphtha Tanks (Process: 6, System: 4)

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]**

[Systems subject to this condition : Process 9, System 5]

S18.6 All affected devices listed under this process/system shall be used only to receive, recover and/or dispose of vent gases routed from the system(s) or process(es) listed below, in addition to specific devices identified in the "connected to" column:

Fixed Roof Storage Tanks : Product Tanks (Process: 6, System: 5)

Fixed Roof Storage Tanks : A-Series Tanks (Process: 6, System: 6)

Fixed Roof Storage Tanks : N-Series Tanks (Process: 6, System: 7)

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]**

## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

**The operator shall comply with the terms and conditions set forth below:**

[Systems subject to this condition : Process 9, System 1]

- S18.7 All affected devices listed under this process/system shall be used only to receive, recover and/or dispose of vent gases routed from the system(s) or process(es) listed below, in addition to specific devices identified in the "connected to" column:

Wastewater Treatment (Process: 5, System: 1)

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]**

[Systems subject to this condition : Process 9, System 8]

- S18.8 All affected devices listed under this process/system shall be used only to receive, recover and/or dispose of vent gases routed from the system(s) or process(es) listed below, in addition to specific devices identified in the "connected to" column:

Fuel Oil Cutter Loading (Process: 7, System: 4)

Naphtha Loading (Process: 7, System: 5)

Marine Diesel Oil Loading (Process: 7, System: 6)

Asphalt Flux Loading - Rack No. 4 (Process: 7, System: 7)

RCRA Fuel Loading and Unloading (Process: 7, System: 9)

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]**

[Systems subject to this condition : Process 9, System 9]

- S18.9 All affected devices listed under this process/system shall be used only to receive, recover and/or dispose of vent gases routed from the system(s) or process(es) listed below, in addition to specific devices identified in the "connected to" column:

## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

**The operator shall comply with the terms and conditions set forth below:**

Sludge Dewatering (Process: 5, System: 2)

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]**

[Systems subject to this condition : Process 9, System 12]

S42.1 The operator shall not use this system for Rule 1149 compliance:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1149

**[RULE 1149, 7-14-1995; RULE 1149, 5-2-2008]**

[Systems subject to this condition : Process 11, System 3]

### DEVICE CONDITIONS

#### C. Throughput or Operating Parameter Limits

C1.12 The operator shall limit the throughput to no more than 200 cubic feet per minute.

**[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]**

[Devices subject to this condition : D555]

C1.13 The operator shall limit the throughput to no more than 200,000 lb(s) in any one calendar month.

For the purpose of this condition, throughput shall be defined as the total weight of materials transferred to the silo.

**[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]**

## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

**The operator shall comply with the terms and conditions set forth below:**

[Devices subject to this condition : D557]

C1.14 The operator shall limit the operation to no more than 30 day(s) in any one year.

This condition shall no longer apply once the scrubber C300 is constructed and is in full use..

[**RULE 204, 10-8-1993**]

[Devices subject to this condition : C142]

C4.1 The operator shall limit the residence time to no less than 0.5 seconds.

[**RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002**]

[Devices subject to this condition : C142]

C4.3 The operator shall limit the residence time to no less than 1.0 seconds.

[**RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002**]

[Devices subject to this condition : C281]

C8.5 The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, is not less than 1400 Deg F.

The temperature limit is the average over 15 minutes.

To comply with this condition, the operator shall install and maintain a(n) temperature reading device to accurately indicate the temperature in the combustion chamber and at least 1 second downstream of the burner.

[**RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997**]

## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

**The operator shall comply with the terms and conditions set forth below:**

[Devices subject to this condition : C142, C281]

C8.6 The operator shall use this equipment in such a manner that the flow rate being monitored, as indicated below, is not less than 400 gpm.

The flow rate limit is the average over 15 minutes.

To comply with this condition, the operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the recirculating caustic solution.

The flow rate measured shall be the scrubber re-circulation flow rate.

The operator shall also install and maintain a device to continuously record the parameter being measured.

The continuous monitoring system shall include visual and audio alarms.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

**[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 407, 4-2-1982; RULE 431.1, 6-12-1998]**

[Devices subject to this condition : C300]

C8.7 The operator shall use this equipment in such a manner that the flow rate being monitored, as indicated below, is not less than 200 gpm.

## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

**The operator shall comply with the terms and conditions set forth below:**

The flow rate limit is the average over 15 minutes.

To comply with this condition, the operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the recirculating caustic solution for each stage.

The flow rate measured shall be the scrubber re-circulation flow rate.

The operator shall also install and maintain a device to continuously record the parameter being measured.

The continuous monitoring system shall include visual and audio alarms.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

**[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 407, 4-2-1982; RULE 431.1, 6-12-1998]**

[Devices subject to this condition : C301]

C8.10 The operator shall use this equipment in such a manner that the pH being monitored, as indicated below, is not less than 7.8 of the pH scale.

## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

#### The operator shall comply with the terms and conditions set forth below:

The pH limit is the average over 15 minutes.

To comply with this condition, the operator shall install and maintain a (n) pH meter to accurately indicate the pH of the scrubbing solution.

The operator shall also install and maintain a device to continuously record the parameter being measured.

The continuous monitoring system shall include visual and audio alarms.

The operator shall calibrate the instrument used to measure the pH per the manufacturer's specifications.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

**[RULE 204, 10-8-1993; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Devices subject to this condition : C300]

C8.11 The operator shall use this equipment in such a manner that the pH being monitored, as indicated below, is not less than 6 of the pH scale.

To comply with this condition, the operator shall install and maintain a(n) pH meter to accurately indicate the pH of the scrubbing solution for each stage.

The operator shall also install and maintain a device to continuously record the parameter being measured.

The continuous monitoring system shall include visual and audio alarms.

The operator shall calibrate the instrument used to measure the pH per the manufacturer's specifications.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

**The operator shall comply with the terms and conditions set forth below:**

**[RULE 204, 10-8-1993; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Devices subject to this condition : C301]

#### **D. Monitoring/Testing Requirements**

D12.5 The operator shall install and maintain a(n) flow meter to accurately indicate the flow rate being supplied to the combustion chamber.

The operator shall also install and maintain a device to continuously record the parameter being measured.

For the purpose of this condition, the flow rate of natural gas supplied to the combustion chamber shall be indicated and recorded

**[RULE 2012, 5-6-2005]**

[Devices subject to this condition : C142, C281]

D12.7 The operator shall install and maintain a(n) stack flow monitor to accurately indicate the flow rate from the afterburner stack to provide continuous and cumulative actual flow volume. Such a stack flow monitor shall be certified by the District pursuant to a District-approved protocol. The operator shall submit an application for certification of the stack flow monitor no later than 60 days after the initial start-up of the stack flow monitor unless otherwise approved in writing by the District.

## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

#### The operator shall comply with the terms and conditions set forth below:

Prior to the initial source test, NOX emissions from the afterburner shall be calculated using the emission factor of 130 lbs/mmscf.

After the initial source test (conducted in accordance with the methodology specified in Rule 2012, Appendix A, Chapter 5), NOX emissions from the afterburner shall be calculated using the NOX RECLAIM concentration determined by the source test and the stack flow rate at stack conditions (no correction for oxygen) by using Rule 2012 Appendix A, Chapter 3, equations 17b and 17c.

When valid exhaust flow rate of an afterburner is not obtained from the stack flow monitor, substituted data for the exhaust flow rate for the afterburner shall be determined by using procedures in the certification letter for the continuous exhaust flow monitor and the missing data procedures applicable to flow as set forth in Rule 2012 Appendix A, Chapter 3, Section K(2).

[RULE 2012, 5-6-2005]

[Devices subject to this condition : C142, C281]

D12.10 The operator shall install and maintain a(n) flow meter to accurately indicate the flow rate at the outlet of the blower.

The operator shall measure the flow rate in standard cubic feet per minute (SCFM).

If a pressure sensing device is used instead of the flow meter, a conversion chart shall be made available to indicate the flow rate (in SCFM) corresponding to the pressure reading.

The operator shall calibrate the flow meter per the manufacturer's specifications.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D555]

D28.1 The operator shall conduct source test(s) in accordance with the following specifications:

## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

**The operator shall comply with the terms and conditions set forth below:**

The test shall be conducted at least once every three years. For the purposes of determining intervals indicated, the cumulative days between testing during which afterburner C142, afterburner C281 or their associated scrubbers are under repair, maintenance, or construction shall not be counted. The operator shall keep sufficient operating records to demonstrate compliance with the testing intervals and dates counted/not counted..

The test shall be conducted to determine the control efficiency of this equipment for destruction of VOCs.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Devices subject to this condition : C142, C281]

D28.2 The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted within 90 days after achieving maximum production rate, but no later than 180 days after initial start-up.

The District shall be notified of the date and time of the test at least 10 days prior to the test.

The test shall be conducted to determine the NOx emissions using District Method 100.1 over a 30 minute averaging time period.

The test shall be conducted to determine the CO emissions at 100% of the units rated capacity using District Method 100.1 over a 60 minute averaging time period. For device C281, the CO emissions shall be determined at normal operating load.

The test shall be conducted in accordance with an approved source test protocol. The source test report shall be submitted to the District within 60 days from the date of the testing.

## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

**The operator shall comply with the terms and conditions set forth below:**

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition : C281]

D28.3 The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted to determine the control efficiency of the equipment for VOCs.

The District shall be notified of the date and time of the test at least 10 days prior to the test.

The test shall be conducted to determine the CO, NO<sub>x</sub>, PM and SO<sub>x</sub> emissions at the outlet. Emissions of CO, NO<sub>x</sub> and SO<sub>x</sub> shall be expressed in lbs/hr and ppmv. Emissions of PM shall be expressed in lbs/hr and gr/scf.

The test shall be conducted at least 90 days after the protocol is approved by the District but no later than 180 days after the initial start-up. Source test report shall be submitted no later than 60 days from the date of the testing.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition : C281]

D29.3 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
NOX emissions	Approved District method	District-approved averaging time	Outlet

## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

**The operator shall comply with the terms and conditions set forth below:**

The test(s) of NOX emissions shall be conducted to establish a NOX concentration limit at the actual stack condition for NOX mass emission calculations pursuant to Rule 2012, Appendix A, Chapter 3, Section (D)(2)(a)(iii).

A source test protocol shall be submitted to the District no later than 30 days after the initial start-up of the stack flow monitor unless otherwise approved in writing by the District. The test protocol shall be approved in writing by the District before the test commences.

The source test(s) shall be conducted no later than 180 days after the initial start-up of the stack flow monitor unless otherwise approved in writing by the District.

A written notice of the source test(s) shall be submitted to the District at least 14 days prior to source testing date so that an observer from the District may be present.

**[RULE 2012, 5-6-2005; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Devices subject to this condition : C281]

D29.4 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
NOX emissions	Approved District method	District-approved averaging time	Outlet

## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

**The operator shall comply with the terms and conditions set forth below:**

The test(s) of NOX emissions shall be conducted to establish a NOX concentration limit at the actual stack condition for NOX mass emission calculations pursuant to Rule 2012, Appendix A , Chapter 3, Section (D)(2)(a) (iii).

A source test protocol shall be submitted to the District no later than 30 days from the date of this permit unless otherwise approved in writing by the District. The test protocol shall be approved in writing by the District before the test commences.

The source test(s) shall be conducted no later than 90 days from the date of this permit unless otherwise approved in writing by the District.

A written notice of the source test(s) shall be submitted to the District at least 14 days prior to source testing date so that an observer from the District may be present.

**[RULE 2012, 5-6-2005; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Devices subject to this condition : C142]

D82.1 The operator shall install and maintain a CEMS to measure the following parameters:

The CEMS shall be installed and maintained to measure exhaust gas SOX emissions.

The exhaust gas SOX emissions shall be in compliance with the District Rule 431.1 requirements.

The CEMS used for monitoring the exhaust gas SOX emissions shall comply with the District Rule 431.1 Attachment A requirements.

The equipment shall be operated in compliance with the applicable District Rule 431.1 Monitoring, Reporting and Recordkeeping Requirements.

**[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 431.1, 6-12-1998]**

## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

**The operator shall comply with the terms and conditions set forth below:**

[Devices subject to this condition : C300, C301]

D90.12 The operator shall periodically monitor the VOC concentration at the outlet of the blower according to the following specifications:

The operator shall use EPA Reference Method 21 to monitor the parameter.

The operator shall calibrate the instrument used to monitor the parameter in ppmv methane.

The operator shall monitor once every week.

The operator shall record the blower flow rate, in SCFM, during the above tests.

**[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Devices subject to this condition : D555]

D90.13 The operator shall sample and analyze the VOC concentration in ppmv as methane, and speciated for the compounds listed below, at the outlet of the blower according to the following specifications:

Grab samples shall be collected at the outlet of the blower at least once during the first week of operation, and once each quarter thereafter.

The samples shall be analyzed for VOC in ppmv as methane.

The samples shall be speciated for benzene, ethylbenzene, toluene, xylenes, methyl tert-butyl ether (MTBE), and chlorinated compounds in accordance with AQMD approved methods.

Analysis shall be conducted using EPA Method 8015, EPA Method 8260, EPA Method TO-3/TO-15 or other method approved by the AQMD.

The operator shall record the blower flow rate, in SCFM, during the above tests.

## **FACILITY PERMIT TO OPERATE DEMENNO/KERDOON**

### **SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

**The operator shall comply with the terms and conditions set forth below:**

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1401,  
9-10-2010; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Devices subject to this condition : D555]

## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

**The operator shall comply with the terms and conditions set forth below:**

D323.1 The operator shall conduct an inspection for visible emissions from all stacks and other emission points of this equipment whenever there is a public complaint of visible emissions, whenever visible emissions are observed, and on a semi-annual basis, at least, unless the equipment did not operate during the entire semi-annual period. The routine semi-annual inspection shall be conducted while the equipment is in operation and during daylight hours.

If any visible emissions (not including condensed water vapor) are detected that last more than three minutes in any one hour, the operator shall verify and certify within 24 hours that the equipment causing the emission and any associated air pollution control equipment are operating normally according to their design and standard procedures and under the same conditions under which compliance was achieved in the past, and either:

- 1). Take corrective action(s) that eliminates the visible emissions within 24 hours and report the visible emissions as a potential deviation in accordance with the reporting requirements in Section K of this permit; or
- 2). Have a CARB-certified smoke reader determine compliance with the opacity standard, using EPA Method 9 or the procedures in the CARB manual "Visible Emission Evaluation", within three business days and report any deviations to AQMD.

The operator shall keep the records in accordance with the recordkeeping requirements in Section K of this permit and the following records:

- 1). Stack or emission point identification;
- 2). Description of any corrective actions taken to abate visible emissions;
- 3). Date and time visible emission was abated; and
- 4). All visible emission observation records by operator or a certified smoke reader.

**[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

**The operator shall comply with the terms and conditions set forth below:**

[Devices subject to this condition : C142, C281, D557]

#### **E. Equipment Operation/Construction Requirements**

E71.2 The operator shall only operate this equipment to process waste gas when the natural gas burner is in operation.

[RULE 204, 10-8-1993]

[Devices subject to this condition : C142, C281]

E71.3 The operator shall only operate this equipment for standby once the new afterburner C281 is commenced operation.

[RULE 204, 10-8-1993]

[Devices subject to this condition : C142]

E71.5 The operator shall not operate this equipment to extract vapors from soils contaminated with any Rule 1401 listed carcinogenic air contaminants (as amended on September 10, 2010) with the exception of benzene, ethylbenzene, MTBE, 1,1-dichloroethane, methylene chloride, perchloroethylene, trichloroethylene and vinyl chloride.

[RULE 1401, 9-10-2010]

[Devices subject to this condition : D554, D555, D556]

E184.1 The operator shall thoroughly clean the filters in the filter vents immediately after each load of material is received.

[RULE 204, 10-8-1993]

[Devices subject to this condition : D557]

E193.3 The operator shall operate and maintain this equipment according to the following specifications:

## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

**The operator shall comply with the terms and conditions set forth below:**

Upon completion, any vapor extraction well(s) and duct(s) shall be capped to prevent vapors from venting to the atmosphere. Vapors shall not be extracted from the soil unless vented to the facility afterburners (C142 or C281).

There shall be not detectable leak between the wellheads and the connection to the facility afterburners (C142, C281).

Prior to connecting any vapor extraction wells to the soil vapor extraction system, the completed wells shall be capped to prevent vapors from venting to the atmosphere.

[**RULE 1166, 7-14-1995; RULE 1166, 5-11-2001; RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]**

[Devices subject to this condition : D554, D555, D556]

**E448.1 The operator shall comply with the following requirements:**

The operator shall operate only one afterburner (Device Nos. C-142 or C-281) at any one time except during afterburner switchover. Switchover time (including but not limited to emergency, maintenance or testing) shall not exceed 6 hours per day and 12 times per year.

These limits shall not apply during the initial start-up period of the SO<sub>x</sub> scrubbers (Device Nos. C-300 and C-301) not to exceed 168 hours during a 30 day period or for curing of new refractory when no vapors are processed or as otherwise approved by the AQMD.

Switchover period shall be defined as switching from one afterburner to another and back to the original afterburner.

[**RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]**

[Devices subject to this condition : C142, C281, C300, C301]

## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

#### The operator shall comply with the terms and conditions set forth below:

E448.2 The operator shall comply with the following requirements:

The concentration by volume, at the exhaust stack of the scrubbers (dry basis, zero percent O<sub>2</sub>), of sulfur compounds in ppmv as SO<sub>2</sub> shall not exceed 12 ppmv averaged over 24 hours.

The mass, at the exhaust stack of the scrubbers, of sulfur compounds as SO<sub>2</sub> shall not exceed 6.7 pounds per day.

[**RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002**]

[Devices subject to this condition : C300, C301]

E448.3 The operator shall comply with the following requirements:

When the afterburner C281 or the scrubber C301 are required to be shut down for maintenance or repairs prior to installation and testing of scrubber C300, afterburner C142 shall only be operated when it is vented to storage tanks and loading/unloading racks vapor recovery. In this case, the valves that control gases from the process lines including knock out pots D226 & D241 shall be closed and locked and no gases from the process lines shall be vented to afterburner C142.

These control valves shall also remain closed and locked until scrubber C300 is operational.

The afterburner C142 shall be operated in accordance with the startup procedures approved by the SCAQMD to prevent the release of Volatile Organic Compounds (VOC) emissions.

[**RULE 204, 10-8-1993**]

[Devices subject to this condition : C142]

E448.4 The operator shall comply with the following requirements:

## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

**The operator shall comply with the terms and conditions set forth below:**

The afterburner C142 shall be vented to scrubber C300 whenever in operation, except when all of the following criteria are met:

1. The scrubber C300 is still under construction and full operation has not commenced; and
2. The valves controlling venting from the knock out pots D226 & D241 are closed and blinded; and
3. The afterburner C281 or scrubber C301 are not operable; and
4. The AQMD shall be notified within 10 days prior to a scheduled shutdown of afterburner C281 or scrubber C301. If 10 days cannot be provided, the AQMD shall be notified as soon as practicable.

**[RULE 204, 10-8-1993]**

[Devices subject to this condition : C142]

#### **H. Applicable Rules**

H23.2 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	464

**[RULE 464, 12-7-1990]**

[Devices subject to this condition : D52, D64, D418]

H23.12 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
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## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

**The operator shall comply with the terms and conditions set forth below:**

Visible Emissions | District Rule | 1155

[RULE 1155, 12-4-2009]

[Devices subject to this condition : D557]

H116.4 The operator shall maintain this equipment to achieve a minimum control efficiency of 98 percent for VOCs in order to comply with District rules and regulations whenever any of the equipment it vents is in operation.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition : C142, C281]

H116.5 The operator shall , upon completion of construction of a sulfur scrubber and the expiration of the initial start-up period described in Condition E448.1, vent this equipment to a sulfur scrubber that has been issued a permit by the District which is in full operation in order to comply with District Rule 431.1 whenever this equipment is in operation.

[RULE 431.1, 6-12-1998]

[Devices subject to this condition : C142, C281]

H116.6 The operator shall determine the VOC concentration on a monthly basis to demonstrate compliance with the VOC limit at the exhaust of the control equipment in order to comply with offsets requirements whenever the afterburners are in operation. If compliance is demonstrated for three consecutive months, then grab sampling and analysis shall be conducted on a quarterly basis. If the quarterly analysis shows non-compliance, then the grab sampling schedule shall be reverted to monthly basis.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : C142, C281]

#### I. Administrative

## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

**The operator shall comply with the terms and conditions set forth below:**

I298.1 This equipment shall not be operated unless the facility holds 12571 pounds of NOx RTCs in its allocation account to offset the annual emissions increase for the first year of operation. The RTCs held to satisfy the first year of operation portion of this condition may be transferred only after one year from the initial start of operation. In addition, this equipment shall not be operated unless the operator demonstrates to the Executive Officer that, at the commencement of each compliance year after the start of operation, the facility holds 12571 pounds of NOx RTCs valid during that compliance year. RTCs held to satisfy the compliance year portion of this condition may be transferred only after the compliance year for which the RTCs are held. If the initial or annual hold amount is partially satisfied by holding RTCs that expire midway through the hold period, those RTCs may be transferred upon their respective expiration dates. This hold amount is in addition to any other amount of RTCs required to be held under other condition(s) stated in this permit.

**[RULE 2005, 6-3-2011]**

[Devices subject to this condition : C142, C281]

#### **K. Record Keeping/Reporting**

K67.18 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

All materials stored during each year.

The date(s) any materials are received.

The total weight of materials received.

Records shall be kept and maintained for at least five years, and shall be made available to the Executive Officer or his authorized representative upon request.

**[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Devices subject to this condition : D557]

## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

**The operator shall comply with the terms and conditions set forth below:**

K67.23 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

VOC measurements.

Grab sample analyses.

Flow rate measurements.

[**RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 1401, 9-10-2010; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Devices subject to this condition : D555]

K171.1 The operator shall provide to the District the following items:

Final drawings and/or specifications of the equipment installed/constructed/modified, including but not limited to PFD, P&ID and revisions/updates, shall be submitted to the SCAQMD within 60 days after completion of the project.

[**RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]**

[Devices subject to this condition : D64, C142, C281, C300, C301, D554, D555, D556, D557]